INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP03/11963

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ F23Q7/00				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
	ocumentation searched (classification system followed C1 ⁷ F23Q7/00, 2/28	by classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1940—1996 Toroku Jitsuyo Shinan Koho 1994—2003 Kokai Jitsuyo Shinan Koho 1971—2003 Jitsuyo Shinan Toroku Koho 1996—2003				
Electronic d	ata base consulted during the international search (nam	e of data base and, where practicable, sear	ch terms used)	
C. DOCU	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
A	Microfilm of the specificatio to the request of Japanese Uti No. 28580/1987 (Laid-open No. (Kenjiro KATO), 20 September, 1988 (20.09.88) Full text; Figs. 1 to 7 (Family: none) Microfilm of the specificatio to the request of Japanese Uti No. 124162/1987 (Laid-open No. (Kiyoharu SUZUKI), 27 February, 1989 (27.02.89), Full text; Figs. 1 to 9 (Family: none)	n and drawings annexed lity Model Application 142571/1988)	1-6	
X Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report		
_	ecember, 2003 (22.12.03)	20 January, 2004 (2	(0.01.04)	
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer		
Facsimile No.		Telephone No.		

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 35241/1990 (Laid-open No. 128251/1991) (Isao ABE), 24 December, 1991 (24.12.91), Full text; Figs. 1 to 2 (Family: none)	1-6
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 41295/1990 (Laid-open No. 3253/1992) (Kiyoharu SUZUKI), 13 January, 1992 (13.01.92), Full text; Figs. 1 to 4 (Family: none)	1-6
A	JP 42-605 Y1 (Sanyo Electric Co., Ltd.), 16 January, 1967 (16.01.67), Full text; Figs. 1 to 6	1-6